

Hazardous Materials Management Group

Who We Are

Jeff Dukes- Manager, Hazardous Materials

150 YEARS



BUILDING AMERICA®

Hazardous Materials Management

The Hazardous Materials Management Group (HMM) is responsible for compliance with the DOT's Hazardous Materials regulations by continuously monitoring the ever changing regulatory climate. Furthermore, HMM aggressively works to prevent hazardous materials releases, actively prepares for response activities, responds as necessary, and works across all departments to recover.

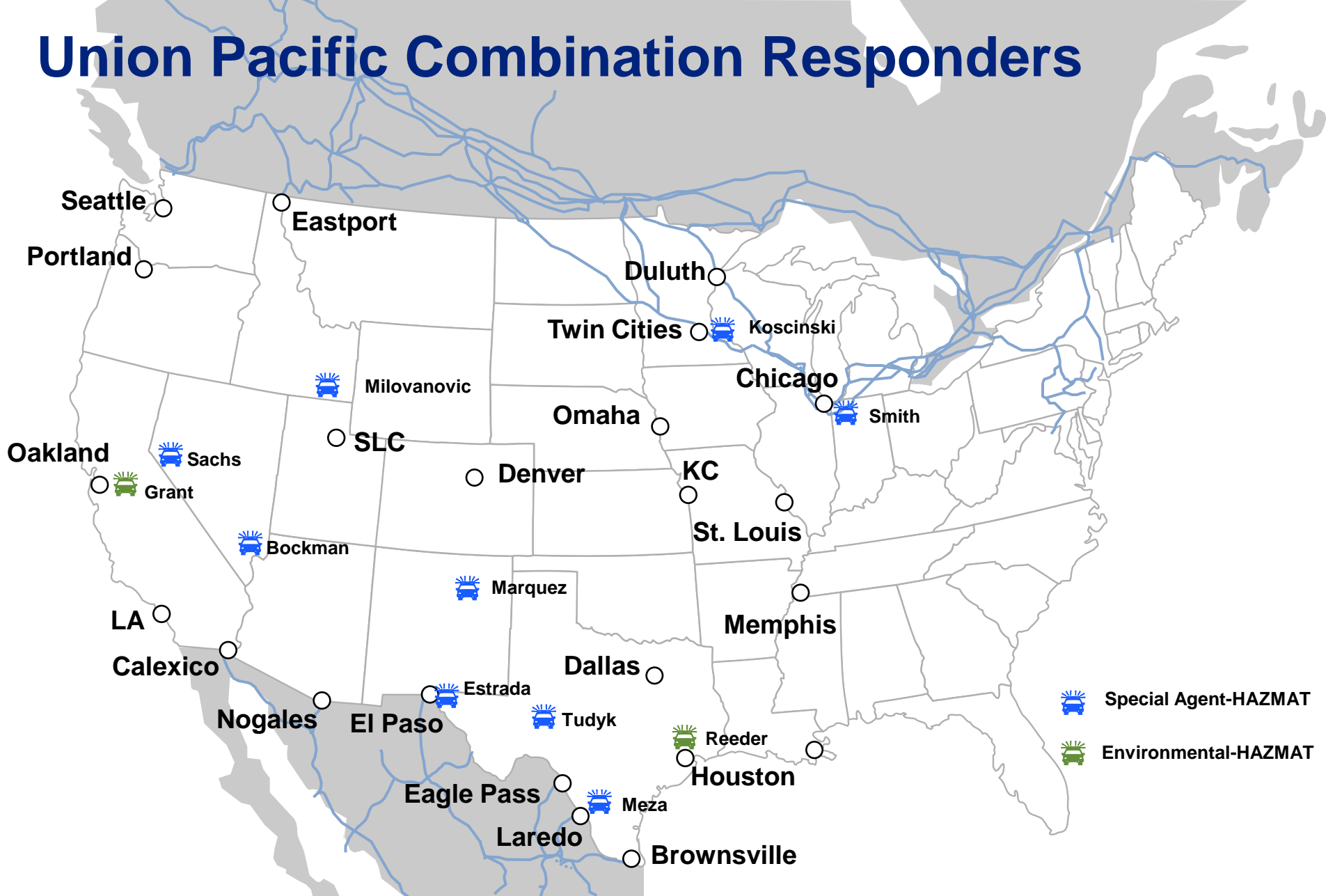
- **Prevention** – Prevent releases of hazardous materials in transportation.
- **Preparedness** - Develop internal and external assets for response and recovery.
- **Response** – Emergency response to releases to protect health minimize impact and stabilize the incident.
- **Recovery** – Progress incident to normal operations and to the point where closure work can begin.



Union Pacific Managers Hazardous Materials



Union Pacific Combination Responders



 Special Agent-HAZMAT
 Environmental-HAZMAT

Prevention

- **Inspections**
 - Tank car
 - Train
 - Crew audits
- **Training**
 - Employees
 - Customers
- **Continuous Improvement**
 - Industry committees
 - BOE
 - AAR Tank Car Committee
 - Equipment design improvements



Preparedness

- **Response Plans**
 - HMERP
 - Community-Right-to-Know
 - OPA-90
- **Training**
 - Public Responders
 - Employees
 - Private/Industry
- **Drills/Exercises**
- **Commodity Flow Data**



Response

Types of Responses

- Hazardous Materials
- Potential HAZMAT Releases
 - Derailments
 - Overloads
 - Damaged Containers
 - Illegal Dumping
- Non-Regulated Material
 - Response arm of EMG
- Fuel/Oil



Response

- **Safety**
 - Employees
 - Community
- **Coordination of Responders**
 - Public Responders (IC)
 - Regulatory Agencies
 - Specialized Contractors
- **Response Duties**
 - Analyze the problem
 - Plan the response
 - Implement plan
 - Evaluate & adjust

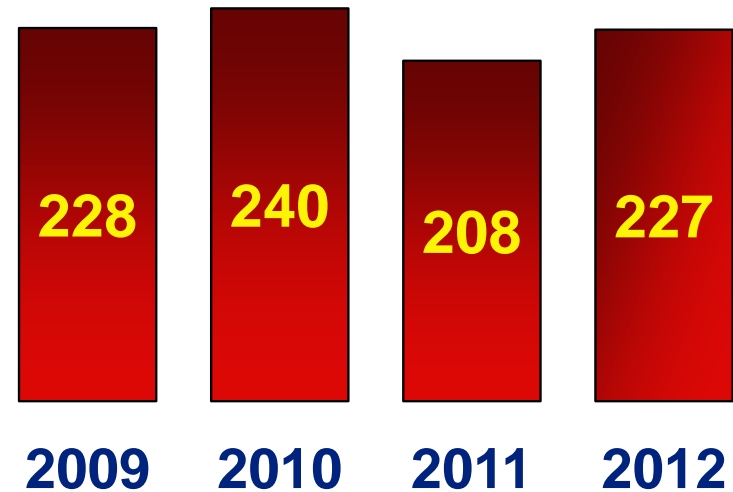


Recovery

- **Product/Container Fate**
 - Product Removal/Transfer
 - Container decontamination/cleaning
- **Incident Termination**
 - Debriefing
 - Post Incident Analysis (PIA)
 - Critique
 - Required Reporting
- **Site Remediation/Restoration**



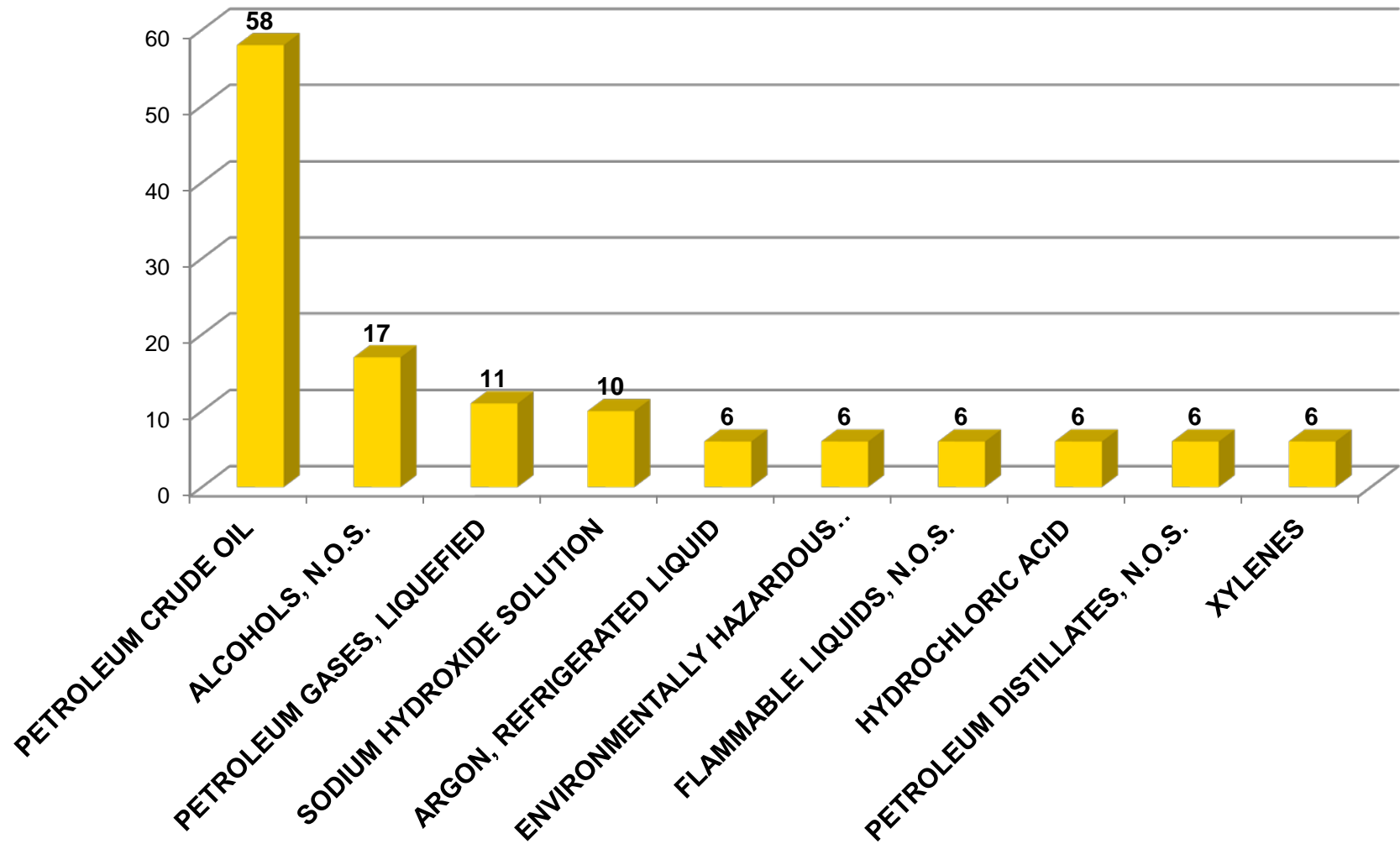
Non-accident Releases



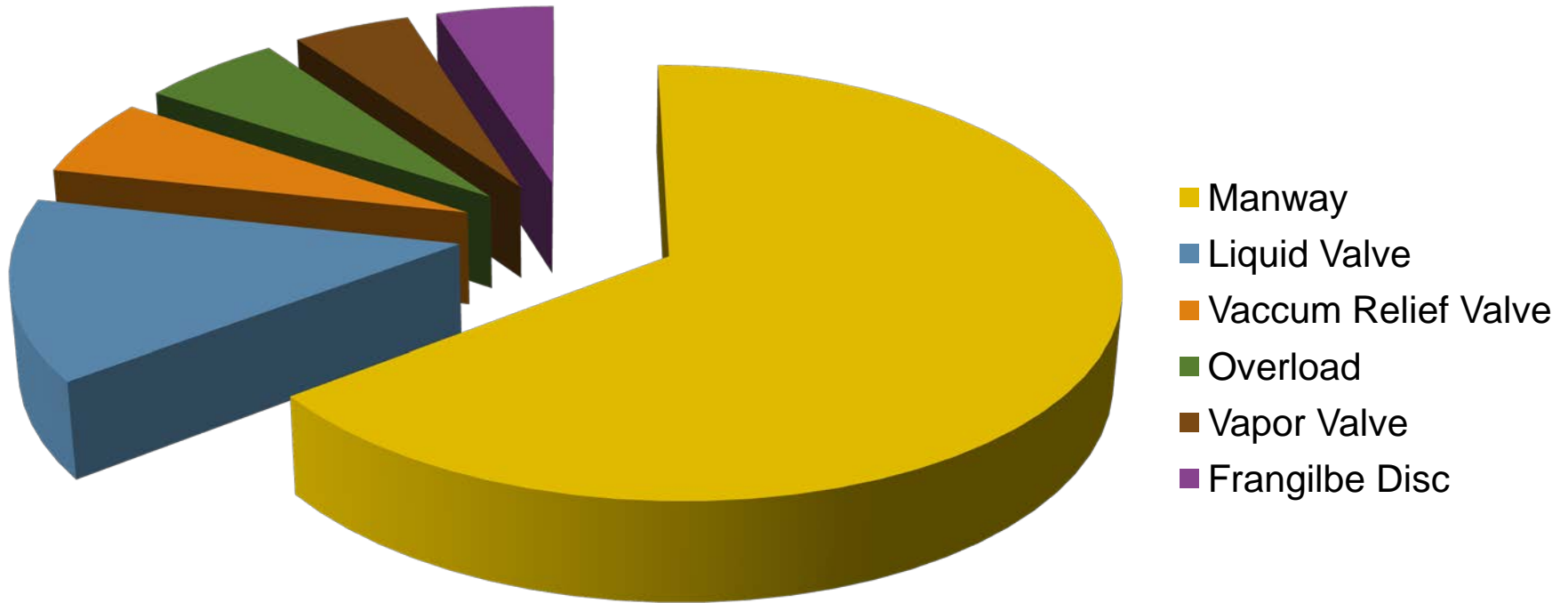
Accident Releases



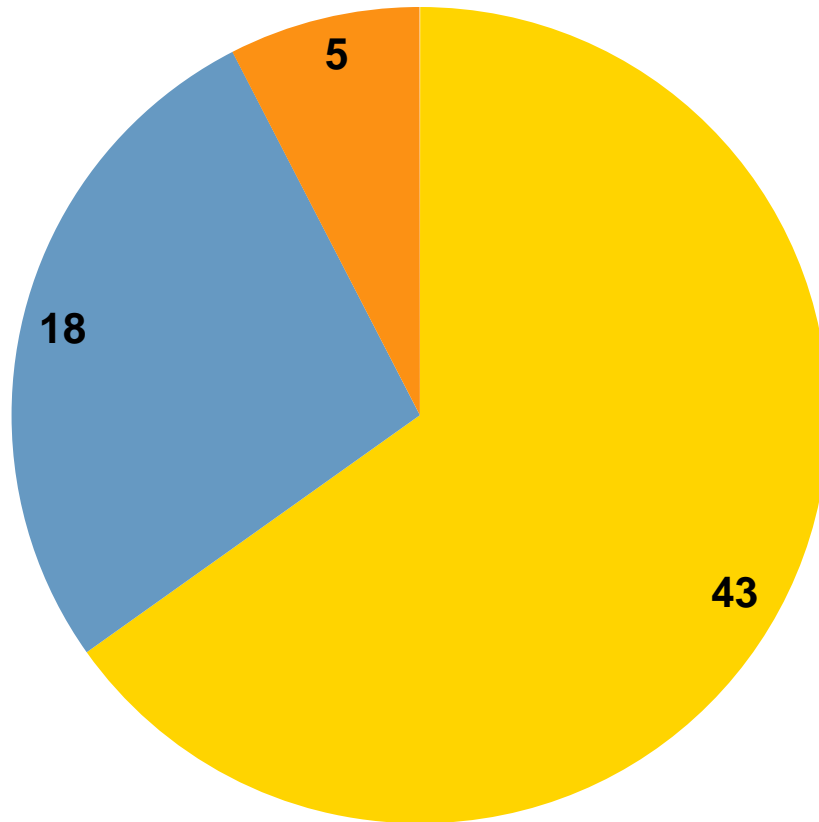
2012 Top NAR Commodities



2012 NAR Top Causes



201 NAR Manway Causes



- Nuts not Tool Tight
- Gasket Deteriorated
- Gasket Not Aligned





Top 10 shipments in Portland

HazMat Response Code	HazMat Desc	Car Loads	Intermodal Loads	Total Loads ▼
4905421	PROPANE OR NON-ODORIZED PETROLEUM GASES, LIQUEFIED OR NON-ODORIZED LIQUEFIED PETROLEUM GAS OR PETROLEUM GASES, LIQUEFIED OR LIQUEFIED PETROLEUM GAS OR PROPANE GAS, LIQUEFIED	90	0	90
4966325	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,N.O.S.CLASS 9 UN3077 PG III COPPER CONCENTRATES	89	0	89
4961605	ELEVATED TEMPERATURE LIQUID, N.O.S. OR ASPHALT (ASPHALTUM), BY-PRODUCT OR PETROLEUM, LIQUID, OTHER THAN PAINT, STAIN OR VARNISH	51	0	51
4909230	METHANOL OR METHANOL (METHYL OR WOOD ALCOHOL), LIQUID NOT FIT FOR HUMAN CONSUMPTION	28	0	28
4920523	CHLORINE OR CHLORINE GAS, LIQUEFIED	19	0	19
4961619	ELEVATED TEMPERATURE LIQUID, N.O.S. OR ASPHALT (ASPHALTUM), BY-PRODUCT OR PETROLEUM, LIQUID, OTHER THAN PAINT, STAIN OR VARNISH	18	0	18
4920359	AMMONIA, ANHYDROUS OR AMMONIA, ANHYDROUS	17	0	17
4909152	ALCOHOLS, N.O.S. OR ETHYL ALCOHOL, ANHYDROUS, DENATURED IN PART WITH PETROLEUM PRODUCTS AND/OR CHEMICALS, PETROLEUM PRODUCTS AND/OR CHEMICALS NOT TO EXCEED FIVE PERCENT NOT FIT FOR HUMAN CONSUMPTION	17	0	17
4908177	GASOLINE OR MOTOR SPIRIT OR PETROL OR GASOLINES, BLENDED, CONSISTING OF MOTOR FUELS CONTAINING 50 PERCENT OR MORE OF GASOLINES	17	0	17
4935240	SODIUM HYDROXIDE SOLUTION OR SODIUM (SODA), CAUSTIC (SODIUM HYDROXIDE), LIQUID LESS THAN OR EQUAL TO 55% CONCENTRATION	17	0	17

Response – “It all starts here!”

UPRR’s Response Management Communications Center 1-888-UPRR-COP (1-888-877-7267)

For Emergencies Dealing with:

- **Criminal Activities**
- **Crossing Accidents/Accidents, Not at Crossings**
- **Derailments**
- **Fires**
- **Hazardous Material Spills/Environmental Incidents**
- **Injured Parties/Fatalities**
- **Track Obstructions**

Any Questions?

